

Serial No. 09/837,298

Docket No. P-0215

Amdt. dated January 6, 2006

Reply to Office Action of October 7, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A method for identifying a calling party number of a switching system comprising:

checking whether a termination subscriber has registered for a calling party number call-back service when a call set-up is requested;

storing a calling party number of an origination subscriber if the termination subscriber has registered for the calling party number call-back service; and

announcing the stored calling party number to the termination subscriber if a calling party number confirming request is received from the termination subscriber,

wherein storing the calling party number comprises:

comparing an area code of the calling party number with an area code of the termination subscriber; and

storing the calling party number exclusive of the area code if the two area codes are identical to each other, and storing both the area code and the corresponding calling party number if the two area codes are different from each other.

2. (Currently amended) The method of claim 1, wherein identifying a calling party number comprises:

requesting the calling party number from the origination processing unit if the requested call is an intra-office call;

checking whether a switching system of an intra-office is a single station when the calling party number is informed; and

storing the calling party number informed by the origination processing unit in a ~~data-based~~database if the switching system of an intra-office is a single station.

3. (Previously Presented) The method of claim 1, wherein the calling party number is not stored if a terminal of the termination subscriber is busy.

4. (Currently amended) The method of claim 1, wherein storing the calling party number further comprises:

requesting a calling party number from the origination processing unit if the requested call is an intra-office call;

checking whether a switching system of the intra-office is a multi-station when the calling party number is informed;

comparing an area code of the calling party number informed by the origination processing unit and an area code of its own office if the switching system of the intra-office is a multi-station; and

storing only the calling party number if the two area codes are identical to each other, and storing both the area code and the calling party number if the two area codes are different ~~to each~~ from each other.

5. (Previously Presented) The method of claim 1, wherein storing the calling party number further comprises:

requesting the calling party number from the incoming processing unit if the requested call is not an inter-office call;

comparing the area code of the calling party number informed by the incoming trunk processing unit with the area code of its own office; and

storing only the called party number if the two area codes are identical to each other, and storing both area code and the calling party number if the two area codes are not identical to each other.

6. (Canceled)

7. (Previously Presented) The method of claim 1, wherein the predetermined form refers to a voice announcement or a display form.

8. (Canceled)

9. (Previously Presented) The method of claim 1, wherein when the calling party number includes a plurality of calling party numbers, which are displayed on a display unit, each calling party number being assigned with a number sequentially.

10. (Previously Presented) A method for identifying a calling party number and calling back in a switching system, comprising:

checking whether a termination subscriber has registered for a calling party number call-back service when a call set-up is requested by an origination subscriber;

storing the calling party number of an origination subscriber if the termination subscriber has registered for the calling party number call-back service;

announcing the stored calling party number in a predetermined form when a calling party number confirmation request is inputted from the termination subscriber; and

calling back the origination subscriber with the calling party number when the calling party number call-back request is inputted from the termination subscriber,

wherein storing the calling party number comprises:

comparing an area code of the calling party number with an area code of the termination subscriber; and

storing the calling party number exclusive of the area code if the two area codes are identical to each other, and storing both the area code and the corresponding calling party number if the two area codes are different from each other.

11. (Currently amended) The method of claim 10, wherein storing the calling party number further comprises:

requesting a calling party number from the origination processing unit if the requested call is an intra-office call;

checking whether an switching system of an intra-office is a single station when the calling party number is informed; and

storing the calling party number informed by the origination processing unit in a ~~data based~~database if the switching system of an intra-office is a single station.

12. (Currently amended) The method of claim 11, wherein storing the calling party number further comprises:

comparing an area code of the calling party number informed by the origination processing unit and an area code of its own office if the switching system of the intra-office is a multi-station; and

storing only the calling party number if the two area codes are identical to each other, or storing both the area code and the calling party number if the two area codes are different ~~to each~~ from each other.

13. (Previously Presented) The method of claim 10, wherein storing the calling party number further comprises:

requesting the calling party number from the incoming processing unit if the requested call is not an inter-office call;

comparing the area code of the calling party number informed by the incoming processing unit with the area code of its own office; and

storing only the called party number if the two area codes are identical to each other, or storing both area code and the calling party number if the two area codes are not identical to each other.

14-15. (Canceled)

16. (Previously Presented) The method of claim 10, wherein when the calling party number includes a plurality of calling party numbers and when the calling party numbers are displayed, they are respectively assigned with a sequential number.

17. (Canceled)

18. (Previously Presented) A method for calling back with a calling party number of a switching system, comprising:

checking whether a termination subscriber has registered for a calling party number call-back service when a call set-up is requested;

storing the calling party number of an origination subscriber if the termination subscriber has registered for the calling party number call-back service in a database; and

calling back the origination subscriber with the calling party number when a calling party number call-back request is inputted from the termination subscriber,

wherein the calling party number call-back request is an affirmative action by a user of the termination subscriber authorizing automatic calling-back of the origination subscriber, and

wherein storing the calling party number comprises:

comparing an area code of the calling party number with an area code of the termination subscriber; and

storing the calling party number without the area code if the two area codes are identical to each other, and storing both the area code and the corresponding calling party number if the two area codes are different from each other.

19. (Currently amended) The method of claim 18, wherein storing the calling party number further comprises:

requesting a calling party number from the origination processing unit if the requested call is an intra-office call;

checking whether a switching system of an intra-office is a single station when the calling party number is informed;

storing the calling party number informed by the origination processing unit in a ~~data base~~ database if the switching system of an intra-office is a single station;

comparing an area code of the calling party number informed by the origination processing unit and an area code of its own office if the switching system of the intra-office is a multi-station; and



storing only the calling party number if the two area codes are identical to each other, or storing both the area code and the calling party number if the two area codes are different to ~~each~~ from each other.

20. (Previously Presented) The method of claim 18, wherein storing the calling party number further comprises:

requesting the calling party number from the incoming processing unit if the requested call is not an inter-office call;

comparing the area code of the calling party number informed by the incoming trunk processing unit with the area code of its own office; and

storing only the called party number if the two area codes are identical to each other, or storing both area code and the calling party number if the two area codes are not identical to each other.

21. (Previously Presented) The method of claim 1, wherein storing the calling party number further comprises storing only the last calling party number such that the last calling party number may be automatically called back by entering the calling party confirmation request.

22. (Previously Presented) The method of claim 10, wherein storing the calling party number further comprises storing only the last calling party number such that the last calling party number may be automatically called back by entering the calling party confirmation request.

23. (Previously Presented) The method of claim 18, wherein storing the calling party number further comprises storing only the last calling party number such that the last calling party number may be automatically called back by entering the calling party call-back request.

24. (Previously Presented) The method of claim 1, wherein announcing the calling party number comprises:

sensing input of a code from the termination subscriber;

checking whether the sensed code is a code for confirming the calling party number;

announcing the calling party number of the origination subscriber stored in the memory in a predetermined form to the termination subscriber if the sensed code is a calling party number confirmation code; and

requesting the termination subscriber select whether or not the announced calling party number is automatically called back.

25. (Previously Presented) The method of claim 10, wherein announcing the calling party number comprises:

sensing input of a code from the termination subscriber;

checking whether the sensed code is a code for confirming the calling party number;

outputting the calling party number of the origination subscriber stored in the memory as an announcement or in a display form if the sensed code is a calling party number confirmation code; and

prompting the termination subscriber to accept or deny automatically calling back the calling party number of the origination subscriber.